

100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990

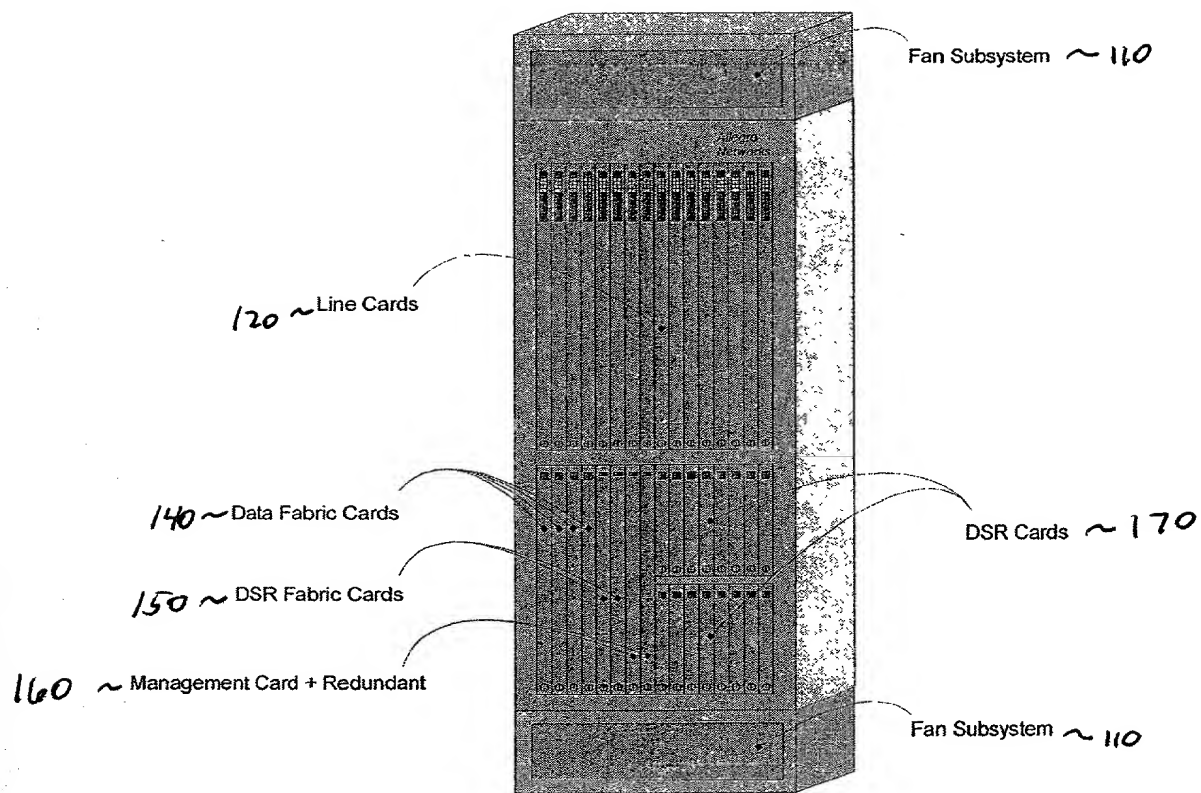
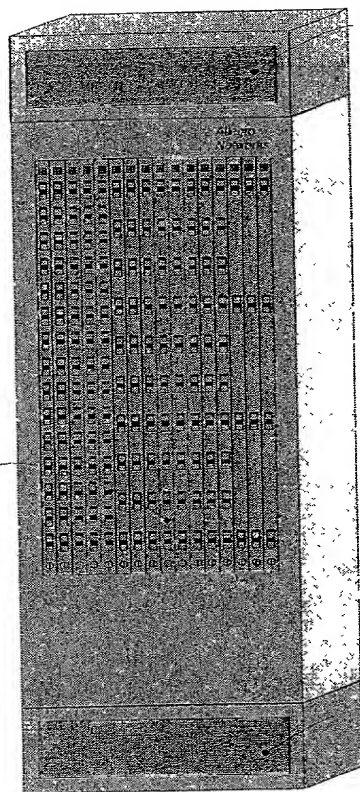


FIG 1A

130 ~ (16) I/O Cards

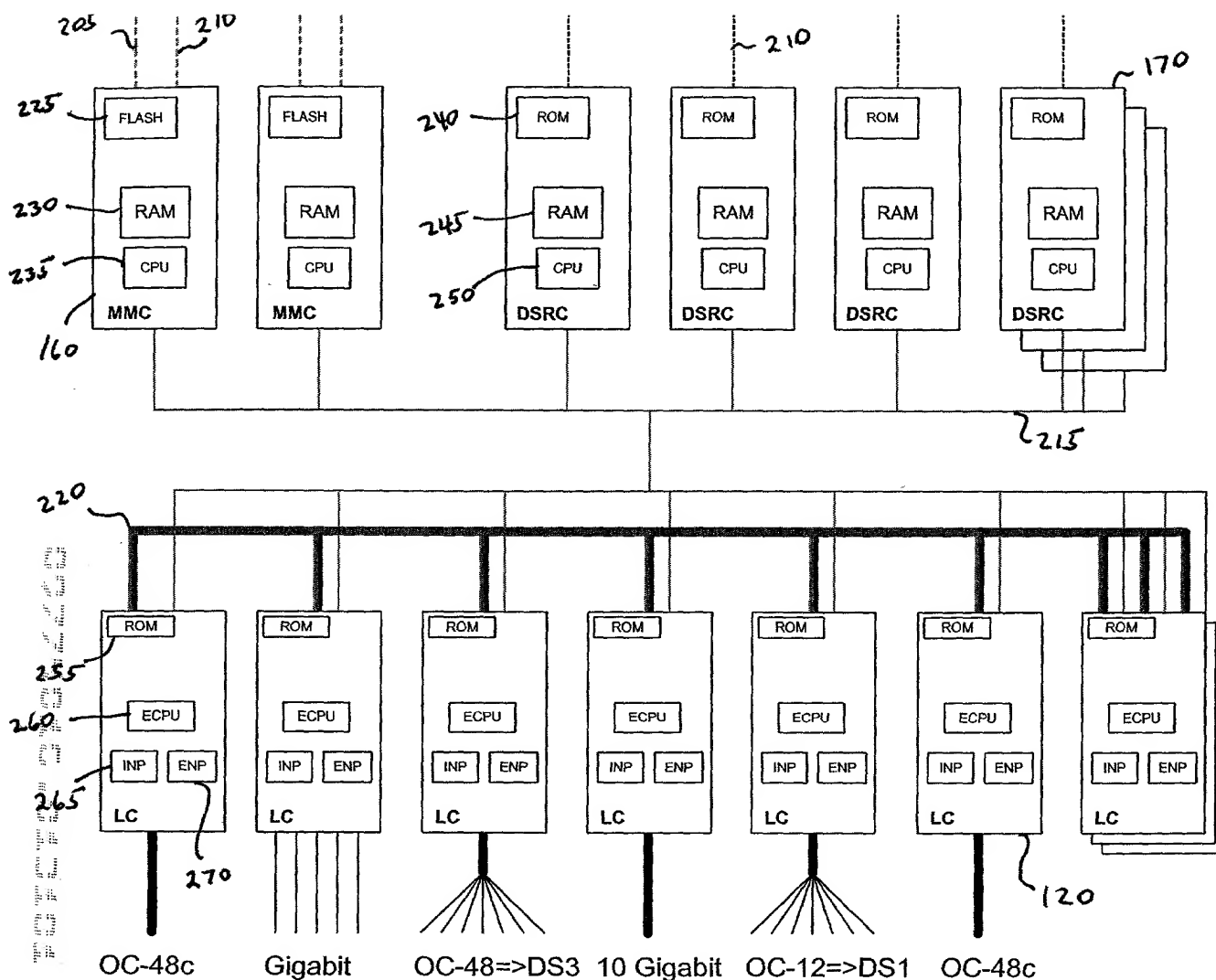


Fan Subsystem ~110

48v DC Power Entry ~115

100

FIG 1B



MMC - Management Module Card
 DSRC - Distributed Service Router Card
 CPU - the main CPU for DSRC, could be a PowerPC
 LC - Line Card
 FLASH - to hold image and configuration files, serve as Booter as well.
 ROM - BootROM
 ECPU - the Exception Processor, could be the same as the CPU for DSRC
 INP - the Ingress Network Processor for packet processing, including co-processor and custom ASICs
 ENP - the Egress Network Processor

----- the console port
 ----- the 10/100M Ethernet port for out of band management
 ————— the line bus or lower speed fabric connecting between the SPRC and DSRC, and between the Line Cards and DSRC/SPRC. This is mainly for ICM.
 ————— the high speed fabric for the switch traffic

FIG. 2

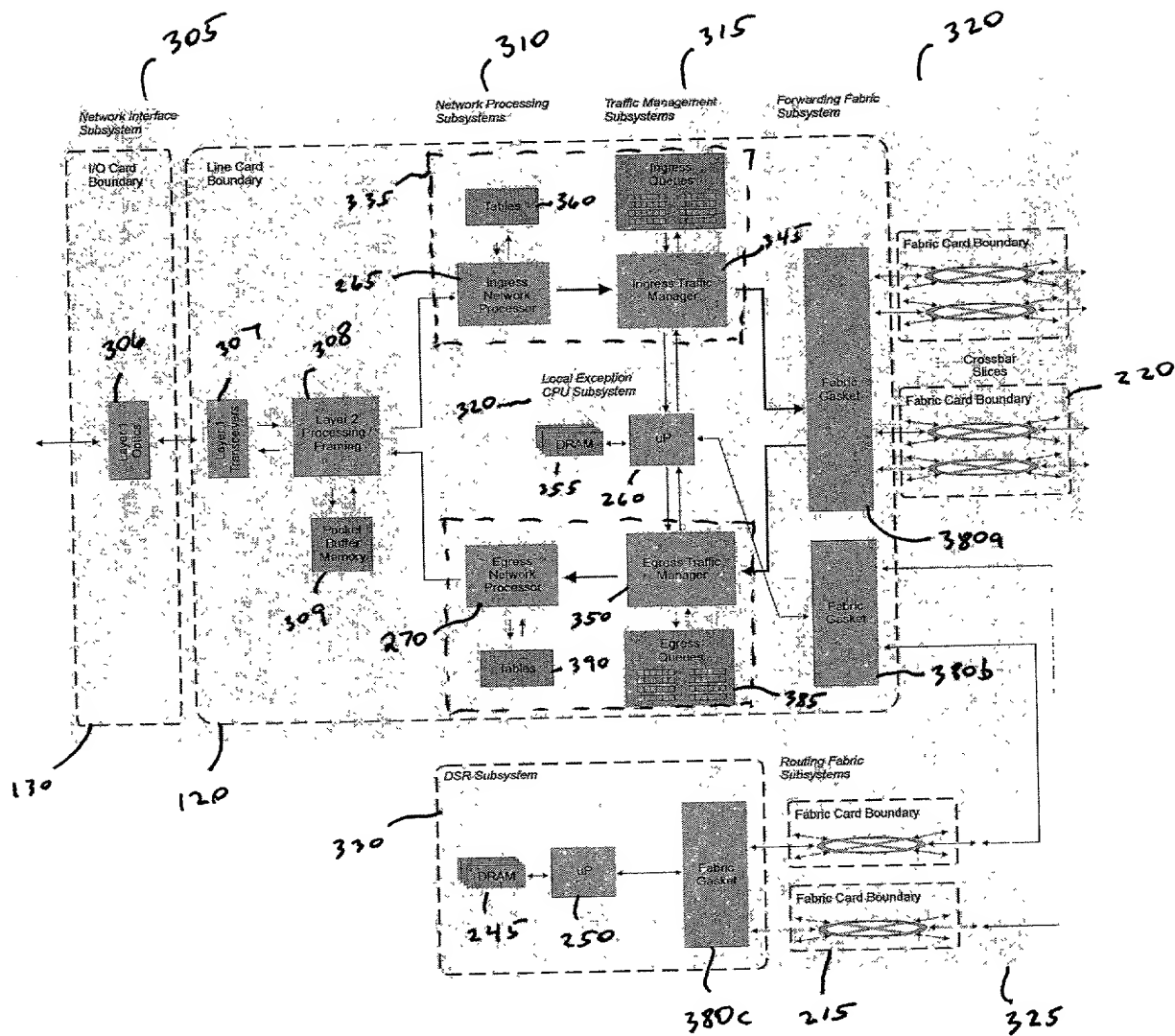


FIG. 3

FIG. 4 is a block diagram of a network architecture showing three main components: MMC (Master Management Component), DSRC (Data Service Router Component), and LC (Line Card). The MMC and DSRC are connected to a central bus 215, which is then connected to the LC. The MMC contains components such as Applications (414), BGP (413), SPR Agent (412), Global Intf Manager (408), DSR Master (404), ICM Director (410), Chassis Manager (406), and ICM/traffic Rx Dispatcher / Tx Agent (402). The DSRC contains an OS layer with Applications, BGP (420), Web/SNMP/CLI Master (422), Config Manager (424), Intf Mgr Remote (426), DSR1 Agent (418), and DSR2 Agent (416), along with a DSR Manager (416) and ICM/traffic Rx Dispatcher / Tx Agent (402). The LC contains an ASIC Manager with components like ASIC Initialization (432), FIB Cache Management (434), Interface Management (438), telnet/ftp client (428), Gigabit/SONET Driver (436), and anything else (440), along with an ICM/traffic Rx Dispatcher / Tx Agent (402).

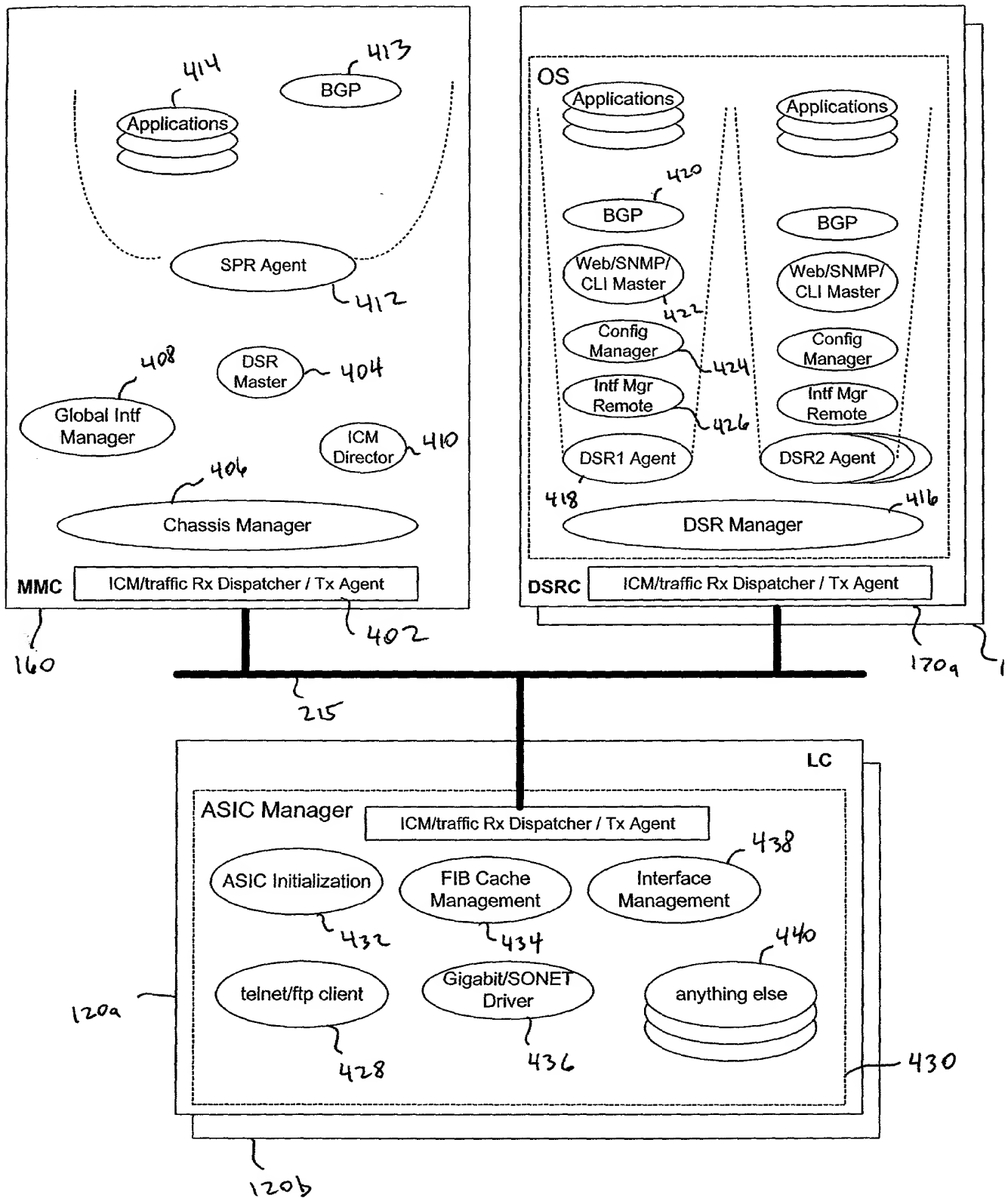


FIG. 4

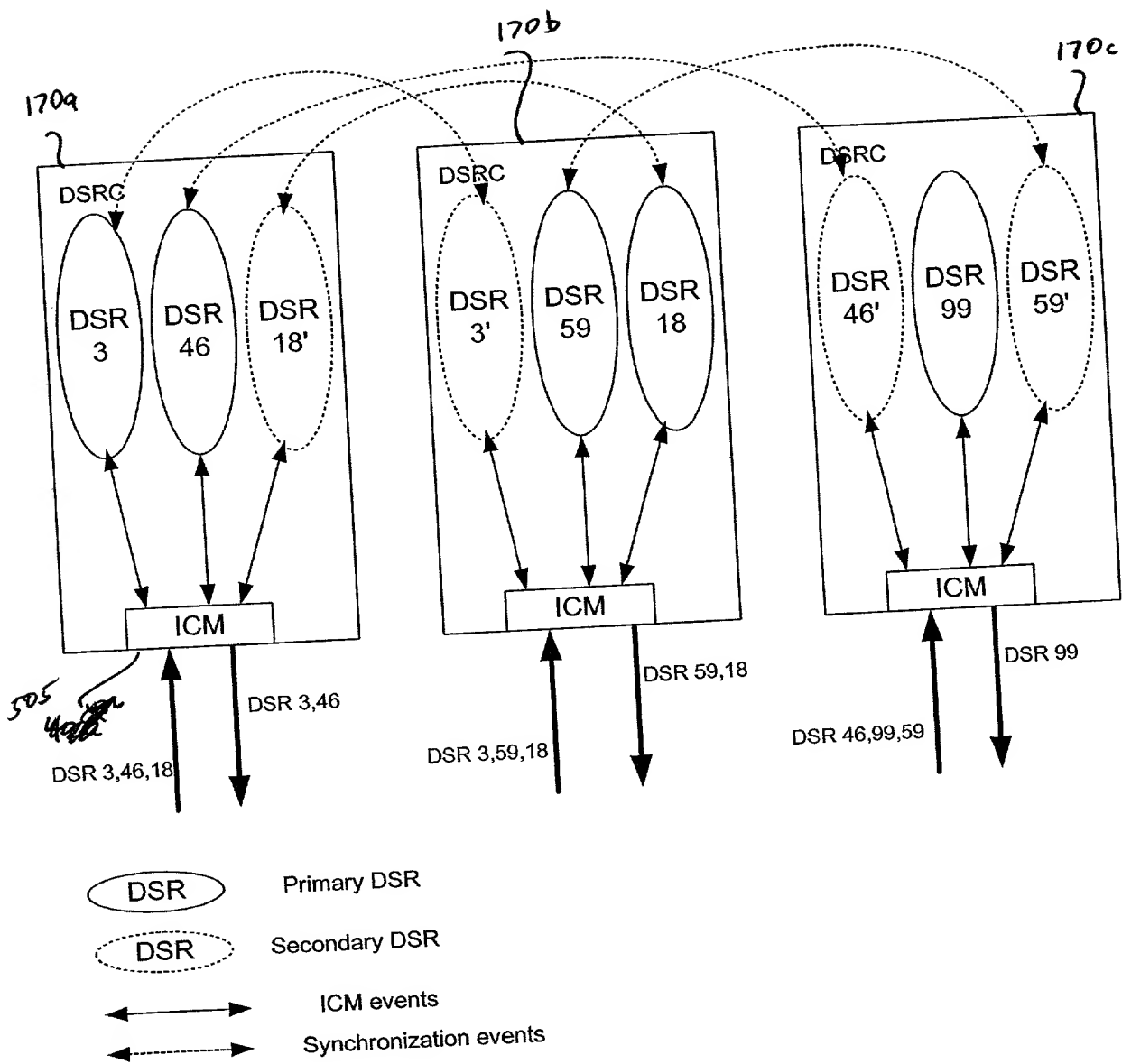


FIG 5